



## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/004,403	11/15/2001	Sheng Zhao	871.0102.U1(US)	9095
29683 75	590 03/08/2005		EXAM	INER
HARRINGTON & SMITH, LLP 4 RESEARCH DRIVE			ELAMIN, ABDELMONIEM I	
SHELTON, CT 06484-6212			ART UNIT	PAPER NUMBER
			2116	
			DATE MAILED: 03/08/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/004,403	ZHAO, SHENG			
Office Action Summary	Examiner	Art Unit			
	A Elamin	2116			
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 ( after SIX (6) MONTHS from the mailing date of this communicati  - If the period for reply specified above is less than thirty (30) days  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a ion. s, a reply within the statutory minimum of this period will apply and will expire SIX (6) MOI y statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	amendment filed on 11/15/200	<u>94</u> .			
2a) This action is <b>FINAL</b> . 2b) ⊠	This action is non-final.				
3) Since this application is in condition for a closed in accordance with the practice ur		·			
Disposition of Claims	•				
<ul> <li>4)  Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are with 5)  Claim(s) 6-8 and 13-18 is/are allowed.</li> <li>6)  Claim(s) 1-5 and 9-12 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and claim(s) are subject to restriction.</li> </ul>	thdrawn from consideration.				
Application Papers					
9) The specification is objected to by the Exa	aminer.				
10) The drawing(s) filed on is/are: a)	The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.				
Applicant may not request that any objection					
Replacement drawing sheet(s) including the of the first term of the control of th					
Priority under 35 U.S.C. § 119		•			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	ments have been received.  Iments have been received in A e priority documents have been Bureau (PCT Rule 17.2(a)).	application No  received in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-9)	, <del></del>	Summary (PTO-413) s)/Mail Date			
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-943)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/5 Paper No(s)/Mail Date</li> </ol>		nformal Patent Application (PTO-152)			

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-5 and 9-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Hedayat et al, US. Pat. No. 6,327,648.
- 3. Claims 1, 3 and 9, Hedayat teaches a data processor comprising at least two processor cores [abstract, Main DSP core 100 and Auxiliary DSP core 200 of fig. 3], each said processor core having a first interface supporting a first bus coupled to an associated one of at least two program memories [program memories 102 and 202 of fig. 3], a second interface supporting a second bus coupled to a common data memory accessible by each of said at least two processor cores [Shared Data memory 300 of Fig. 3], and a third interface supporting a third bus coupled to at least one input/output device accessible by each of said at least two processor cores [abstract, Fig. 3], each of said first, second and third buses comprise an address bus that is sourced from one of said processor cores and a data bus [abstract, Fig. 3, col. 2, line 60 thru col. 3, line 14].
- 4. Claims 2 and 10, Hedayat teaches said first interface supports a unidirectional data bus and wherein said second interface and said third interface each support a bidirectional data bus [abstract, Fig. 3].

Application/Control Number: 10/004,403 Page 3

Art Unit: 2116

5. Claims 4-5 and 11-12, Hedayat teaches said plurality of processor cores has said second

interface coupled to said common data memory through a common memory control unit

[abstract, Fig. 3].

Allowable Subject Matter

6. Claims 6-8 and 13-18 allowed.

**Conclusion** 

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to A Elamin whose telephone number is (571) 272-3674. The

examiner can normally be reached on MON-FRI 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lynne Browne can be reached on (571) 272-3670. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent'

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. ELAMIN PRIMARY EXAMINER A Elamin Primary Examiner Art Unit 2116

March 7, 2005